

Status of NGV Codes and Standards Development

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With Old-Fashioned Codes and Standards, We're Behind the Times!



NGV C&S Come from Many Sources

- NFPA
- ANSI/CSA/NGV
- SAE
- ISO
- ASME
- CGA
- NHTSA/DOT
- UFC
- ECE
- NIST/NCWM
- CCR
- IFC
- EPA
- TX Administrative Code
- OIML
- Etc.

NFPA

- NFPA 52 – CNG Vehicular Fuel Systems*
- NFPA 57 – LNG Vehicular Fuel Systems*
- NFPA 30A – Motor Fuel Dispensing Facilities & Repair Garages
- NFPA 88A – Parking Structures

*to be combined, along with LPG and H₂

ANSI/CSA/NGV

- NGV1 – CNG Fueling Connection Devices
- NGV2 – CNG Vehicle Fuel Containers
- PRD1 – Pressure Relief Devices
- NGV3.1 – NGV Fuel System Components
- NGV4.1 – NGV Dispensing Systems
- NGV4.2 – Hoses
- NGV4.4 – Breakaway Devices
- NGV4.6 – Manual Valves
- NGV4.8 – Reciprocating Compressors

SAE

- CNG
 - J1616 – CNG Vehicular Fuel Systems
 - J2406 – CNG M and HD Trucks
- LNG
 - J2343 – LNG HD Trucks
 - J2645 – LNG Metering and Dispensing
 - J2644 - LNG Composition
 - J1740 – LNG Connectors

A Few C&S Issues

- NGV1 Receptacle “Wear”
- ISO 15500 – Other than Stainless Tubing
- ISO 14469 – HD CNG Connector
- Interaction of H2 and NGV C&S
- PRDs
- International Harmonization

Up-to-Date Technology Relies on Up-to-Date Codes and Standards!

